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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,740	04/18/2005	Byung Sung Lee	466/1	2330
51439 SEAN LIAM K	7590 12/08/200 ELLEHER	EXAMINER		
Kelleher IP PLLC			HENNING, MATTHEW T	
16 PECKSLIP RD CARMEL, NY 10512			ART UNIT	PAPER NUMBER
			2431	
			NOTIFICATION DATE	DELIVERY MODE
			12/08/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

skelleher@kelleherip.com

	Application No.	Applicant(s)
	10/531,740	LEE, BYUNG SUNG
Office Action Summary	Examiner	Art Unit
	MATTHEW T. HENNING	2431
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 18 / 2a) This action is FINAL . 2b) This action is FINAL . 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers	awn from consideration.	
9)☑ The specification is objected to by the Examin 10)☑ The drawing(s) filed on 4/18/2005 is/are: a)☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctable. The oath or declaration is objected to by the E	accepted or b) objected to by e drawing(s) be held in abeyance. So ction is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date

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1	This action is in response to the communication filed on 4/18/2005.
2	DETAILED ACTION
3	Claims 1-17 have been examined.
4	Title
5	The title of the invention is acceptable.
6	Information Disclosure Statement
7	The information disclosure statement(s) (IDS) submitted on 11/10/2006 is in compliance
8	with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information
9	disclosure statements.
10	Drawings
11	Figures 1, 2a and 2b should be designated by a legend such as Prior Art because only
12	that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with
13	37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the
14	application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header
15	(as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes
16	are not accepted by the examiner, the applicant will be notified and informed of any required
17	corrective action in the next Office action. The objection to the drawings will not be held in
18	abeyance.
19	Specification
20	The disclosure is objected to because of the following informalities:
21	The specification is objected to under 37 CFR 1.77(c) because the section headings
22	should not be underlined. Appropriate correction is required.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (US Patent Number 5,450,490) hereinafter referred to as Jensen.

Regarding claim 1, Jensen disclosed a method for encrypting a speech signal transmitted through a communication line (Jensen Abstract), comprising: a characteristic parameter extracting step of splitting the speech signal into predetermined frequency components and extracting a magnitude value of each of the frequency components (Jensen Col. 9 Lines 23-32); and a data transmission step of transmitting the parameter data extracted at the characteristic parameter extracting step through the communication line (Jensen Col. 15 Lines 46-60).

Regarding claim 2, Jensen disclosed a method for encrypting a speech signal transmitted through a communication line, comprising: an analog/digital conversion step of converting an analog speech signal into digital data (Jensen Col. 9 Lines 23-26); a characteristic parameter extracting step of extracting a magnitude value of each of frequency components of the data (Jensen Col. 9 Lines 26-32); and a digital/analog conversion step of converting the data extracted at the characteristic parameter extracting step into an analog signal (Jensen Col. 10 Lines 15-18).

Regarding claim 10, Jensen disclosed a system for encrypting a speech signal transmitted through a communication line, comprising: an analog/digital conversion means for converting an

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- analog speech signal into digital data (Jensen Col. 9 Lines 23-26); a characteristic parameter
- 2 extracting means for extracting a magnitude value of each of frequency components of the data
- 3 (Jensen Col. 9 Lines 26-32); and a digital/analog conversion means for converting the data
- 4 obtained by the characteristic parameter extracting means into an analog signal (Jensen Col. 10
- 5 Lines 15-18).
- Regarding claims 3 and 11, Jensen disclosed that the characteristic parameter extracting
- 7 step includes an FFT processing step (Jensen Col. 9 Lines 26-32).
- 8 Regarding claims 4 and 12, Jensen disclosed that the characteristic parameter extracting
- 9 step includes DCT processing step (Jensen Col. 13 Lines 17-22).
- Regarding claims 5 and 13, Jensen disclosed that the characteristic parameter extracting
- step includes WAVELET transform processing step (Jensen Col. 9 Lines 26-32).
- Regarding claims 6 and 14, Jensen disclosed that the characteristic parameter extracting
- step includes a subband dividing step (Jensen Col. 9 Lines 17-32).
- Regarding claims 7 and 15, Jensen disclosed a rearrangement step of rearranging a series
- of characteristic parameters obtained at the characteristic parameter extracting step (Jensen Col.
- 16 9 Line 54 Col. 10 Line 14).
- 17 Regarding claims 8 and 16, Jensen disclosed that rearrangement of the characteristic
- parameters change magnitude values of the characteristic parameters (Jensen Col. 9 Line 54 –
- 19 Col. 10 Line 14).
- Regarding claims 9 and 17, Jensen disclosed that the rearrangement step rearranges the
- 21 characteristic parameters time-serially (Jensen Col. 3 Line 50 Col. 4 Line 2).

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1	Conclusion
2	Claims 1-17 have been rejected.
3	The prior art made of record and not relied upon is considered pertinent to applicant's
4	disclosure.
5	Any inquiry concerning this communication or earlier communications from the
6	examiner should be directed to MATTHEW T. HENNING whose telephone number is
7	(571)272-3790. The examiner can normally be reached on M-F 8-4.
8	If attempts to reach the examiner by telephone are unsuccessful, the examiner's
9	supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the
10	organization where this application or proceeding is assigned is 571-273-8300.
11	Information regarding the status of an application may be obtained from the Patent
12	Application Information Retrieval (PAIR) system. Status information for published applications
13	may be obtained from either Private PAIR or Public PAIR. Status information for unpublished
14	applications is available through Private PAIR only. For more information about the PAIR
15	system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR
16	system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would
17	like assistance from a USPTO Customer Service Representative or access to the automated
18	information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.
19	
20 21 22 23	/Matthew T Henning/ Examiner, Art Unit 2431